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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,415	09/08/2003	Elissa E. Carapella	42P6139CD	9024
8791 7	7590 06/14/2005		EXAM	INER
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR			NGUYEN, DONGHAI D	
			ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90025-1030		3729		

DATE MAILED: 06/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commons	10/657,415	CARAPELLA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Donghai D. Nguyen	3729			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 03 Ma	<u>ay 2004</u> .				
2a) This action is FINAL . 2b) ⊠ This	☐ This action is FINAL . 2b) ☐ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>17-40</u> is/are pending in the application.					
4a) Of the above claim(s) <u>21-30,33-35 and 38-40</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>17-20,31,32,36 and 37</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some ★ c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
oce the attached detailed office action for a list of	or the certified copies not receive	u.			
Attachment(s)	,, ,	(DTO, 440)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) D Notice of Informal P	atent Application (PTO-152)			
Paper No(s)/Mail Date <u>5/3/04</u> .	6)				

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species A, drawn to forming the strip by plating, readable on claims 18, 32, and 37

Species B, drawn to forming the strip by drilling, readable on claims 21-22, 33-34, and 38-39.

Species C, drawn to forming strip by etching, readable on claims 23, 35, and 40 **Species D**, drawn to forming second conductive layer, readable on claims 24-30.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 17, 19, 20, 31 and 36 are generic claim.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Application/Control Number: 10/657,415 Page 3

Art Unit: 3729

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 2. During a telephone conversation with William E. Alford on June 7, 2005 a provisional election was made without traverse to prosecute the invention of **Species A**, claims 18, 32, and 37. Affirmation of this election must be made by applicant in replying to this Office action. Claims 21-30, 33-35, and 38-40 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claims 17-20, 31-32, and 36-37 are examined on the merits as follow:

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/657,415

Art Unit: 3729

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Page 4

5. Claims 17-20, 31-32, and 36-37 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent 5,825,084 to Lau et al.

Regarding claims 17, 31, and 36, Lau et al disclose a method of forming an integrated circuit package (see Fig. 1B), comprising: providing a package housing having a rectangular bond shelf (100, 200 etc.) with a rectangular top surface and an inside surface perpendicular with the top surface (See Figs. 3A, C), the bond shelf having a first plurality of bonding pads (110') located on the top surface; forming a conductive material (Col. 5, lines 32-33) along the side surface of the bond shelf, a first portion of the conductive material wrapping around from the inside surface onto the top surface of the bond shelf to couple to at least one of the first plurality of bonding pads on the top surface of the bond shelf (See Fig. 4C); and, removing a second portion (130) of the conductive material along the inside surface of the bond shelf to form a pair of separate conductive strips along the inside surface of the bond shelf (see Figs. 2A, 3D, 4D).

Thus, Lau et al meet every limitation of claims 17, 31, and 36.

Regarding claims 18, 32, and 37, Lau et al disclose the limitations recited in these claim i.e., the forming of conductive strip by plating a conductive material onto the first edge (Col. 5, lines 39-41).

Regarding claims 19-20, Lau et al disclose the first conductor under the first bond shelf is being a power bus (Col. 4, lines 41-47) and/or being a routing trace (150) as depicted in Fig. 2C.

Application/Control Number: 10/657,415

Art Unit: 3729

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The prior art of reference cited for the teaching of forming an integrated circuit

package.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Donghai D. Nguyen whose telephone number is (571)-272-4566.

The examiner can normally be reached on Monday-Friday (9:00-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter D. Vo can be reached on (571)-272-4690. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DN

June 10, 2005

MINHTRINH
PRIMARY EXAMINER

Page 5